

Installation Instruction

50Ω RIGID LINE POWER RATINGS AND ATTENUATION CHARACTERISTICS

MODELS: SWITCH FRAMES, COMBINER INTERCONNECTIONS

FREQUENCY: 10-860 MHz

Switch frames are supplied with product handbooks. Read them fully before commencing installation. Many switch frames operate with high RF power. Observe safety precautions when working on, or in close proximity.

Switch frames are fitted with interlocks to protect operating staff who inadvertently remove U-links when they are under power.

At installation, these interlocks should be wired and jumpered to provide valid interlock circuits for the transmitters.

Prior to the application of power to the switch frame, these interlock circuits should be checked back to the appropriate transmitter and confirmed to operate correctly. Most transmitters will have an external interlock connection to which the connection will be made. This will have a light emitting diode (LED) or similar visual indication to show a valid circuit.

Where there are no LED indicators, interlocks may be broken without removing the U-link. To deactivate an operating transmitter in this way, rotate the actuator handle through 1/8th of a turn (or anti-clockwise 45°) to break the contact. **If transmitter interlocks are checked using this method DO NOT REMOVE THE U-LINK.**

Correct operation should be confirmed for all U-link positions.

Average power ratings in Figure 1 are based upon an ambient air temperature of 40°C, unity VSWR termination, and free air circulation. Inner conductor temperature rise 62°C. Outer conductor temperature rise 23°C. Linearly derate to 0.5 for 80°C ambient temperature.

When equipment is operated at temperatures above those indicated above, the power rating must be derated accordingly.

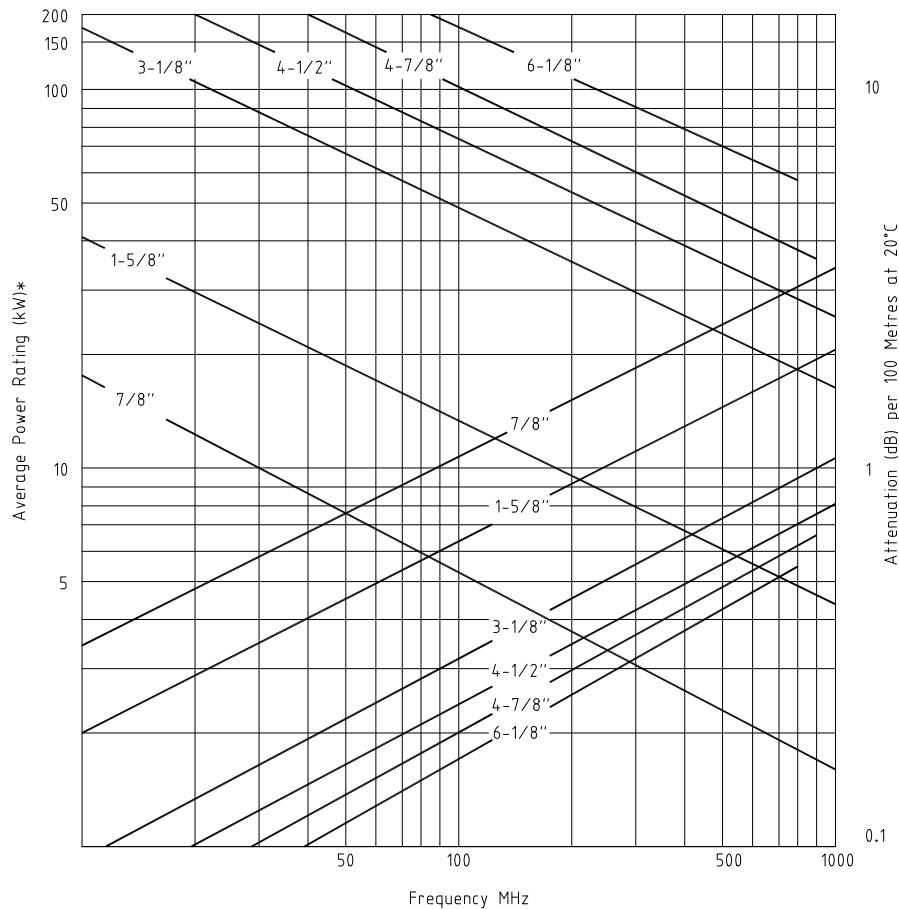


Figure 1: 50 Ω rigid line power ratings and attenuation characteristics